

## **Section 505—Corrugated Steel Bridge Plank**

### **505.1 General Description**

This work consists of installing bridge flooring of corrugated steel complete in place and according to the Plans and Specifications.

#### **505.1.01 Definitions**

General Provisions 101 through 150.

#### **505.1.02 Related References**

##### **A. Standard Specifications**

Section 501—Steel Structures

Section 535—Painting Structures

Section 852—Miscellaneous Steel Materials

Section 870—Paint

##### **B. Referenced Documents**

General Provisions 101 through 150.

#### **505.1.03 Submittals**

General Provisions 101 through 150.

### **505.2 Materials**

All materials shall meet the requirements of the following Specifications:

<b>Material</b>	<b>Section</b>
Corrugated Steel Plank for Bridges	852.2.04
Paint	870

#### **505.2.01 Delivery, Storage, and Handling**

General Provisions 101 through 150.

### **505.3 Construction Requirements**

#### **505.3.01 Personnel**

General Provisions 101 through 150.

#### **505.3.02 Equipment**

General Provisions 101 through 150.

#### **505.3.03 Preparation**

General Provisions 101 through 150.

#### **505.3.04 Fabrication**

##### **A. In-Shop Fabrication Requirements**

Fabricate plank from steel plate of the thickness shown on the plans. Form the plank to a minimum size of at least 13 in (330 mm) wide by 2 in (50 mm) deep with at least two complete corrugations. The section modulus per inch (millimeter) shall be equal to or greater than that shown on the Plans.

1. Holes for Welded Attachment to Beams

Shop-punch holes for welded attachment to beams and space the holes as shown on the Plans.

2. Painting

Shop painting shall be of the paint type and the number of coats shown on the Plans.

**505.3.05 Construction**

**A. Installing Plank**

Install the corrugated steel bridge plank as follows:

1. Place the plank as shown on the Plans.
2. Ensure that the bottom corrugations have full bearing on supporting members.
3. Hold the bottom corrugations in full contact with the supporting members until they are securely connected according to the details shown on the Plans.

**B. Welding**

All welds shall be of the type and size, and be placed at the location shown on the Plans. All welding shall meet the requirements of Subsection 501.3.06.C, “Welded Construction.”

**C. Field Painting**

Apply the type of paint and the number of coats shown on the Plans according to Section 535.

**505.3.06 Quality Acceptance**

General Provisions 101 through 150.

**505.3.07 Contractor Warranty and Maintenance**

General Provisions 101 through 150.

**505.4 Measurement**

This work will be measured for payment in square feet (meters), including laps of accepted planks.

**505.4.01 Limits**

General Provisions 101 through 150.

**505.5 Payment**

This work will be paid for at the Contract Price per square foot (meter) for corrugated steel bridge plank complete in place.

Payment will be made under:

Item No. 505	Corrugated Steel Bridge Plank	Per square foot (meter)
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**505.5.01 Adjustments**

General Provisions 101 through 150.

**Section 506—Expanded Mortar**

**506.1 General Description**

This work consists of making and placing expanded mortar composed of a special Portland cement concrete and an aluminum powder additive.

**506.1.01 Definitions**

General Provisions 101 through 150.

**506.1.02 Related References**

**A. Standard Specifications**

Section 800—Coarse Aggregate

Section 801—Fine Aggregate

Section 830—Portland Cement

Section 835—Aluminum Powder

Section 880—Water